

Earth Science Regents Cold Front!

Name _____

Period _____

On September 29, 2005, a strong cold front crossed New York State ushering in the coldest temperatures of the season.

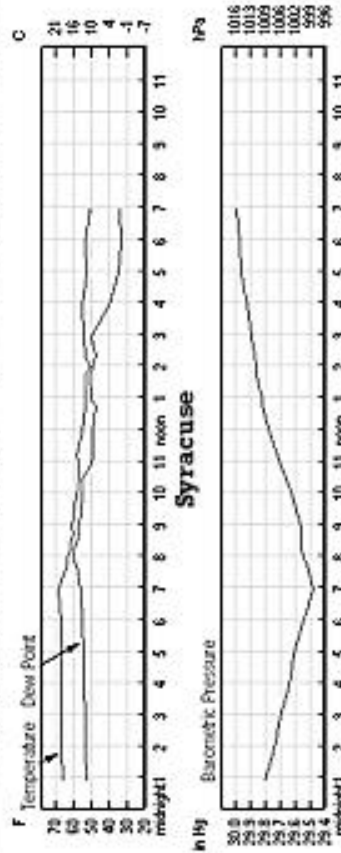
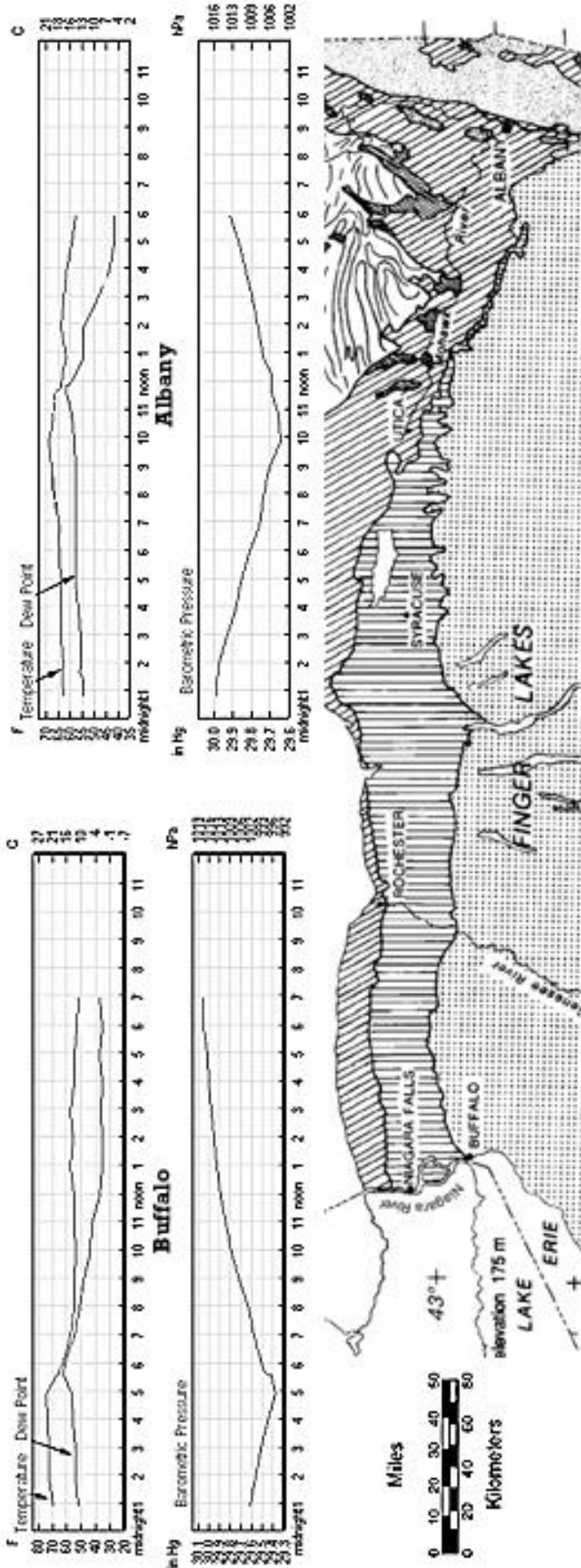
The map to the left shows a west-east 'slice' of NY (from Buffalo to Albany), and the charts show temperature, dewpoint, and pressure information gathered at 3 NYS cities during the day.

Use the map, charts, and your knowledge of earth science to answer the following questions:

1. How can you identify the passage of the cold front on each of the charts?

2. At what time of day did the front pass through each of the 3 cities?

3. In what direction was the front traveling? And how do you know that?



4. What was the average velocity of the front as it swept across NYS? (Show and explain your reasoning and work!)

Answer: _____

Work and reasoning:

5. List all the changes in the weather that occurred in the hours immediately before and after the front blew through each city. The changes include those that are recorded on the charts, and there are others, too
